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(54) BINDER FOR SOLVENT TYPE INORGANIC FORMED PRODUCT

(57)Abstract:

PROBLEM TO BE SOLVED: To impart excellent shape-retaining property before drying and dry strength to a formed product by combinedly using an acrylic resin and a butylal resin dissolved in an organic solvent as a binder for forming a powdery and/or fibrous water-reactive inorganic raw material.

SOLUTION: An acrylic-methacrylic acid copolymer including polymethyl methacrylate and having 200-2,000 degree of polymerization is preferable as the above acrylic resin. A polyvinyl butylal having 60-70 mole% butylal group is used as the above polyvinyl butylal. A compounding ratio of the acrylic resin to the butylal resin is about (80:20) to (20:80) expressed in terms of weight ratio. The binder can be used by mixing and integrating both resins as main agents with a solvent such as polypropylene glycol and a plasticizer such as a fatty acid ester as auxiliary agents. The binder added is used in an amount of about 5-25 pts.wt. based on 100 pts.wt. inorganic raw material. The inorganic raw material includes an oxide-based or nonoxide-based ceramic or metal material.

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